

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of.	)	
	)	
CHIEN HO, et al.	)	Group Art Unit:
	)	
Serial No.: 09/598,218	)	Examiner:
	)	
Filed: June 21, 2000	)	
	)	
For: LOW OXYGEN AFFINITY	)	
<u>MUTANT HEMOGLOBINS</u>	)	

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. § 1.97(b)

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

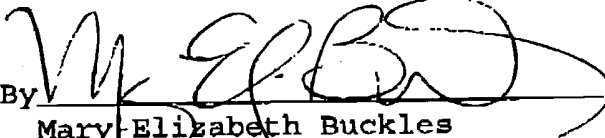
In compliance with the duty of disclosure as defined in 37 C.F.R. § 1.56 enclosed herewith for the Examiner's consideration is a copy of the publication listed on the attached Form PTO-1449. This statement is made pursuant to 37 C.F.R. § 1.97(b) since a first Office Action on the merits has not been mailed in the above-identified application.

This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that:

(1) additional information material to the examination of this application does not exist; (2) the information, protocols,

results and the like reported by third parties are accurate or enabling; or (3) the above information constitutes prior art to the subject invention.

Respectfully submitted,

By   
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Filed: December 22, 2000

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(MODIFIED) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.96(b))

ATTY. DOCKET NO.  
002547/20118

SERIAL NO.  
09/598,218

APPLICANT  
Chien Ho, et al.

FILING DATE  
June 21, 2000

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	TAB	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1	5	7	5	3	4	6	5	5/19/98	Ho, et al.			
	2	5	8	4	3	8	8	8	12/1/98	Ho, et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

3	Dickerson, R.E., et al. <u>Hemoglobin: Structure, Function, Evolution, and Pathology</u> , pp 22-24, Benjamin/Cummings, Menlo Park, CA (1983)
4	Mulder, A.G., et al., <u>J. Cell Comp. Physiol.</u> 5:383 (1934)
5	Bunn, H.F., et al. <u>J. Exp. Med.</u> 129:909 (1969)
6	Chada, K., et al., <u>Nature (London)</u> 314:377 (1985)
7	Townes, T. M., et al. <u>EMBO J.</u> 4:1715 (1985)
8	Swanson, M.E., et al. <u>Bio/Technology</u> 10:557 (1992)
9	Groebe, D.R., et al., <u>Protein Expression and Purification</u> 3:134 (1992)
10	Wagenbach, M., et al. <u>Bio/Technology</u> 9:57 (1991)
11	DeLiano, J.J., et al. <u>Proc. Natl. Acad. Sci. USA</u> 90:918 (1993)
EXAMINER	
DATE CONSIDERED	

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered.  
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[illegible]

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 002547/20118	SERIAL NO. 09/598,218
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.96(b))		APPLICANT Chien Ho, et al.	
		FILING DATE June 21, 2000	GROUP

U.S. PATENT DOCUMENTS											
EXAMINER INITIAL	TAB	PATENT NUMBER						ISSUE DATE	PATENTEE	CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION													
		DOCUMENT NUMBER						PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
												YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

18	Shaanan, B., et al. <u>J. Mol. Biol.</u> 171:31 (1983)
19	Schneider, R. G., et al. <u>Biochim. Biophys. Acta.</u> 400:365 (1975)
20	Bonaventura, J., et al. <u>J. Biol. Chem.</u> 243:980 (1968)
21	Perutz, M.F. <u>Nature</u> 228: 726 (1970)
22	Baldwin, J.M., et al. <u>J. Mol. Biol.</u> 129: 175 (1979)
23	Baldwin, J.M., <u>J. Mol. Biol.</u> 136: 103 (1980)
24	Fermi, G., et al. <u>J. Mol. Biol.</u> 175: 159 (1984)
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December 22, 2000 11:17 AM

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	31	Kim, H.-W., et al. <u>Biochemistry</u> <b>35</b> :6620-6627 (1996)
	32	Ho, C., et al. <u>Blood Substitutes: Present and Future Perspectives of Blood Substitutes</u> (Tsuchida, E., Ed.), Elsevier Science SA, Lausanne, Switzerland, pp. 281-296 (1998)
	33	Kim, H.-W., et al., <u>J. Mol. Biol.</u> <b>248</b> :867 (1995)
	34	Carver, T.E., et al. <u>J. Biol. Chem.</u> <b>267</b> : 14443 (1992)
	35	Brantley, R.E. Jr., et al. <u>J. Biol. Chem.</u> <b>268</b> : 6995 (1993)
	36	Eich, R.F., et al. <u>Biochemistry</u> <b>35</b> : 6976 (1996)
	37	Doherty, D.H., et al. <u>Nature Biotech.</u> <b>16</b> : 672 (1998)
EXAMINER		DATE CONSIDERED

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